

ABSTRACT

A heat exchanger includes a shell having an open end and a closed end and defining a shell cavity. A steam inlet is located adjacent the closed end and communicates with the shell cavity to allow steam to enter the shell cavity. A flange is coupled to the shell adjacent the open end. The flange includes a first passageway communicating with the shell cavity for receiving a tube bundle, and a second passageway communicating with the shell cavity to allow condensate to drain from the shell cavity. Preferably, the shell has a longitudinal axis and the second passageway has a longitudinal axis that is oriented substantially normal to the longitudinal axis of the shell. The second passageway is positioned in the flange to allow condensate to drain from the shell cavity regardless of whether the heat exchanger is oriented vertically or horizontally.

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